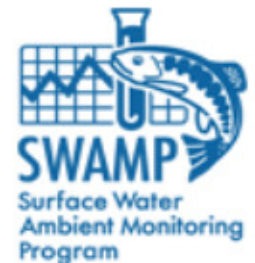


California's Surface Water Ambient Monitoring Program Response to SPARC



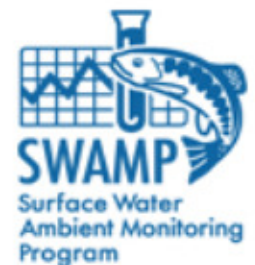
Initial RT Response

- **Strongly support all SPARC recommendations**
- **Actively addressing all recommendations**
- **Two Board workshops**
- **12 stakeholder meetings; 10 RT meetings**
 - **Board Management (MCC; Program Leads)**
 - **Board Management/Regulated Community (SCCWRP Commission)**
 - **CASQA (CA Stormwater Quality Ass.)**
 - **Other Agencies (IACC – NPS Monitoring Council)**
 - **Client Panel**
- **Two draft assessments; four draft workplans**
- **Reconvene with SPARC (March)**
- **Final Report w/ staff chapter (March 31st)**
- **3rd Board workshop (April)**



SPARC Recommendations

1. Reevaluate the original program goals.
2. Identify key target audiences.
3. Develop and implement a programmatic communication strategy.
4. Develop a statewide assessment framework.
5. Take more advantage of available resources.
6. Realign program management and decision making with the revised program goals.



SWAMP Proposed Response

Reevaluate the original program goals.

- Priorities set for next two years; contingent on funding

Identify key target audiences.

- Completed

Develop and implement a programmatic communication strategy.

- Workplan almost complete; implementation started

Develop a statewide assessment framework.

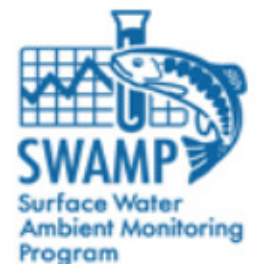
- Ongoing; Identified basic tenets; Developed two workplans

Take more advantage of available resources.

- Ongoing; making progress

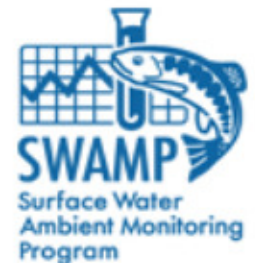
Realign program management and decision making with the revised program goals.

- Ongoing; making progress; workplan being developed



SWAMP Budget for FY06-07

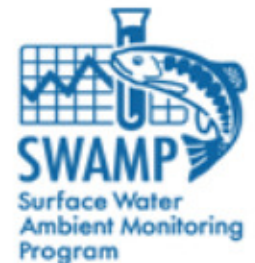
- \$ 0
 - \$3.4 million (current)
 - \$4.5 million
 - \$7.9 million (likely?)
 - \$11.9 million *
-
- Planning has never been so simple!
-
- *After SPARC report sent to legislature



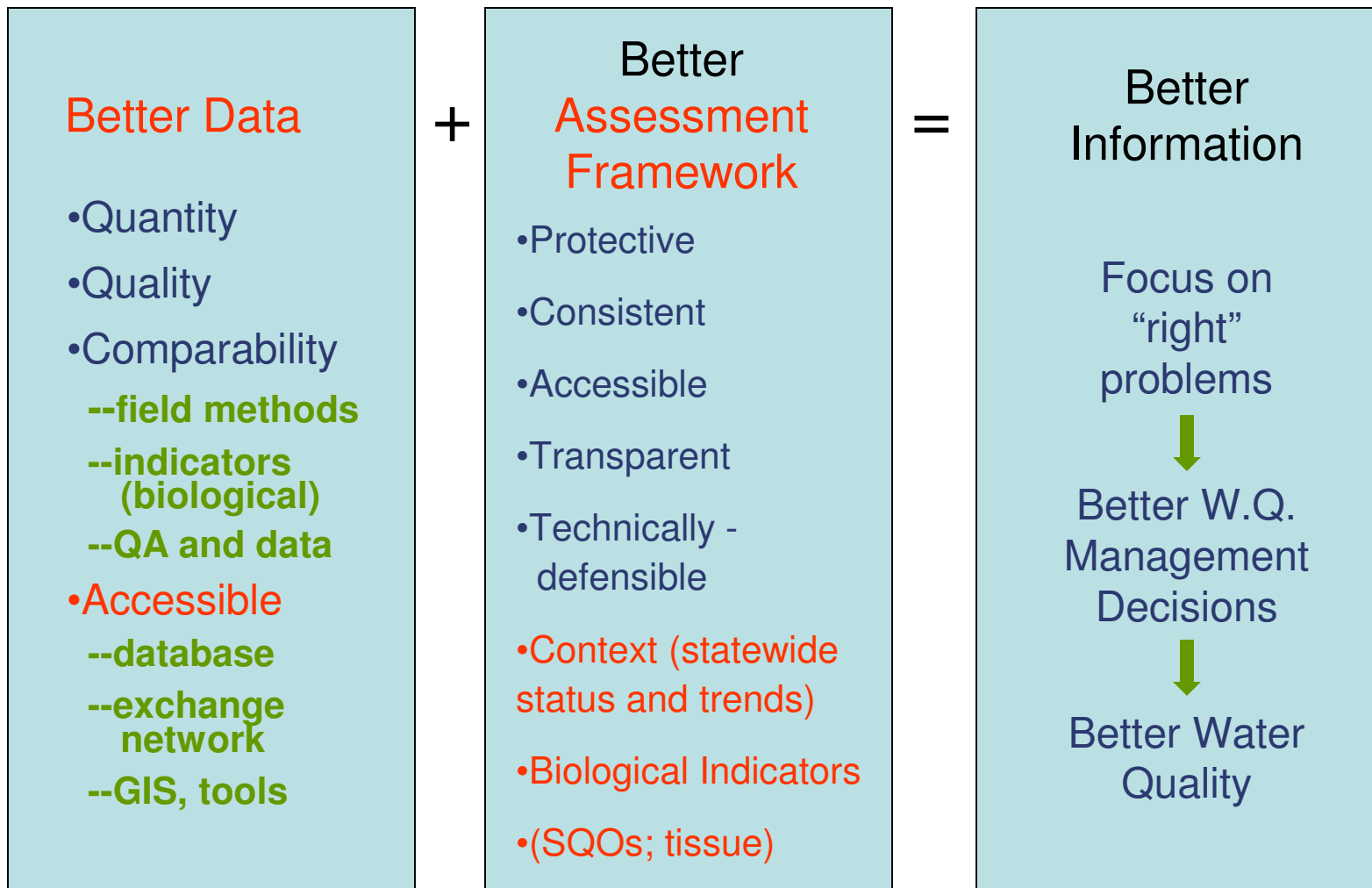
Recommendation 1.

Reevaluate Program Goal

- Revisit 2000 Report to Legislature.
- Match responsibilities with funding.
- Define role of SWAMP relative to other Board programs, and give SWAMP authority to perform this role.
- Enhance statewide assessment capability.



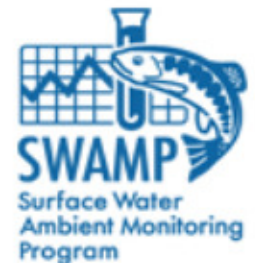
“Fix” 305(b) and 303(d) Process



Response 1.

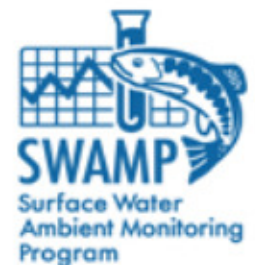
Reevaluating program goals

- New SWAMP Priorities:
 - All Board water quality data will be comparable, high quality and Internet accessible. [Expert Workshop on data management](#)
 - Develop statewide assessment framework-- focused initially on key biological indicators.
 - [White paper on role of biological assessment in WQC.](#)
 - [Expert workshop on statewide design.](#)
 - [Expert workshop on Biological Assessment Program](#)
 - Partner to expand state assessments. [Develop strategy.](#)

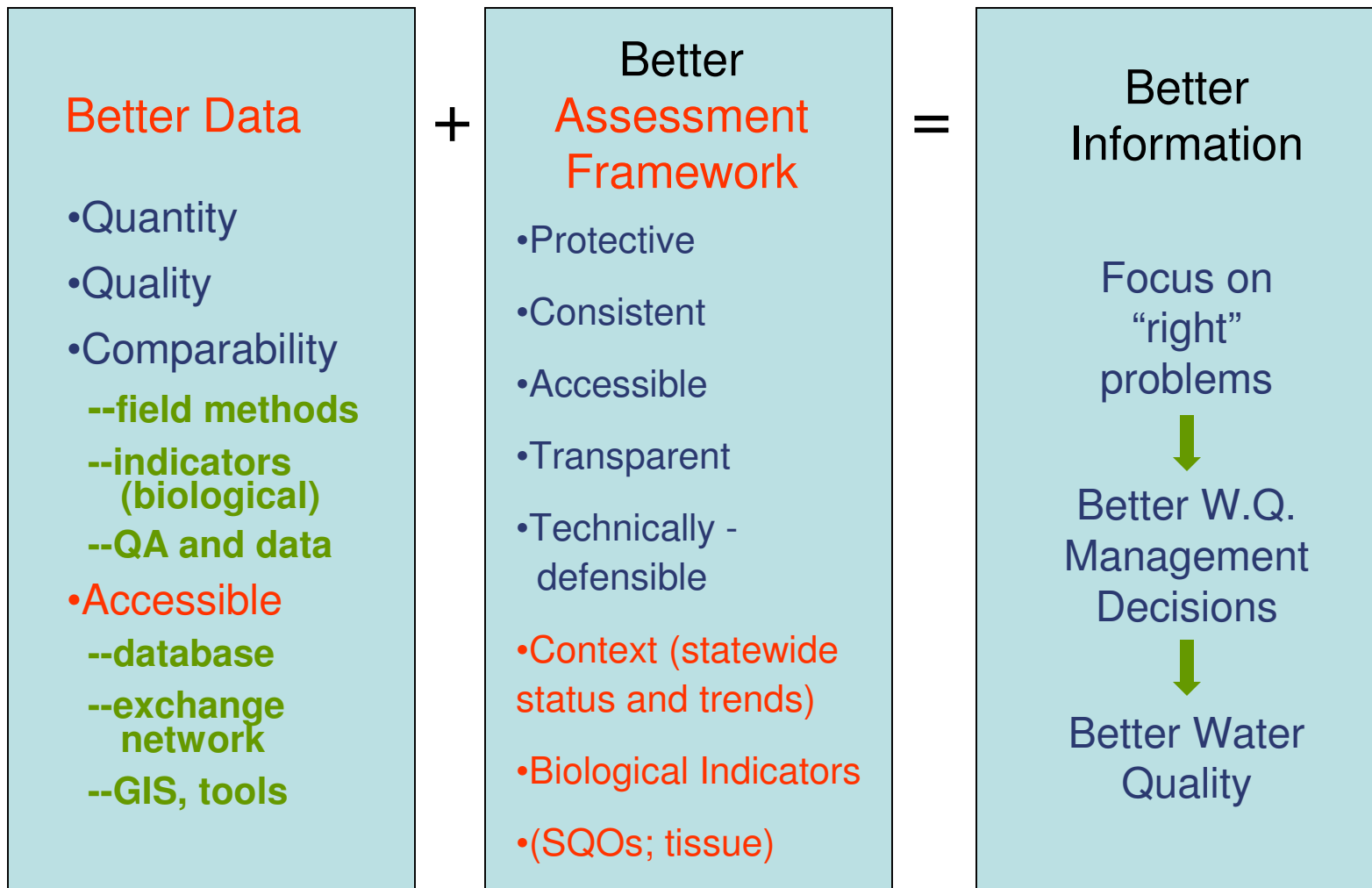


Accessible Data

- Stay the course on QA and data management
- All Board data
- Regulatory Program Data
- GIS tools (2009)
- CEDEN
- Technical Workshop; SB1070

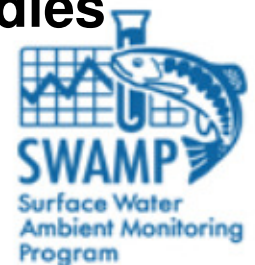


“Fix” 305(b) and 303(d) Process

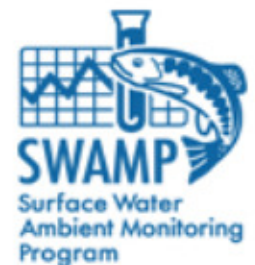
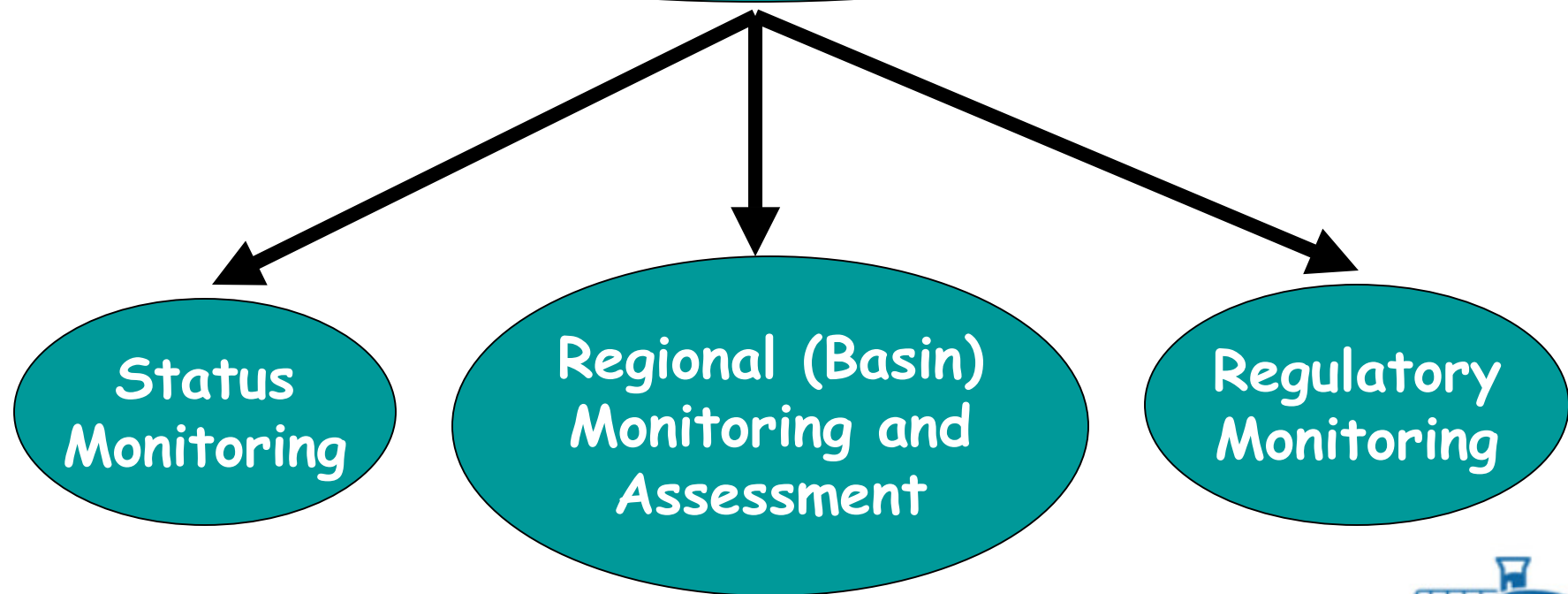


Monitoring Philosophy

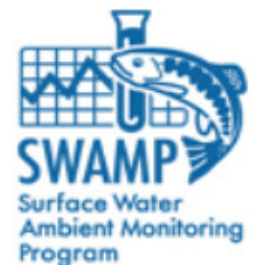
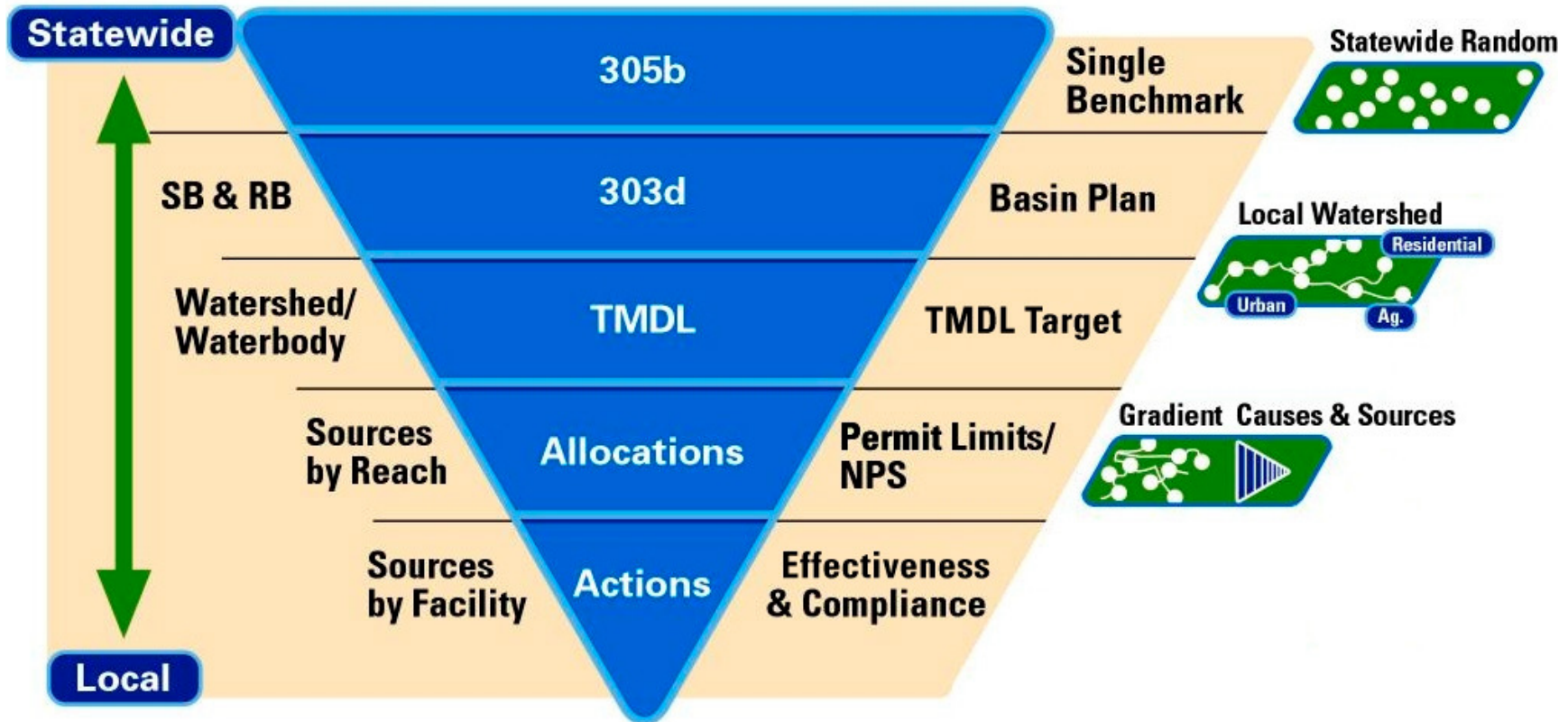
- Monitoring data should be focused on answering questions
 - **No data collection for data's sake**
 - **Answered questions should result in management action**
- The greater the impact, the greater the monitoring
 - - **less impact means less monitoring**
- Three part monitoring framework
 - - **core monitoring, regional monitoring, special studies**



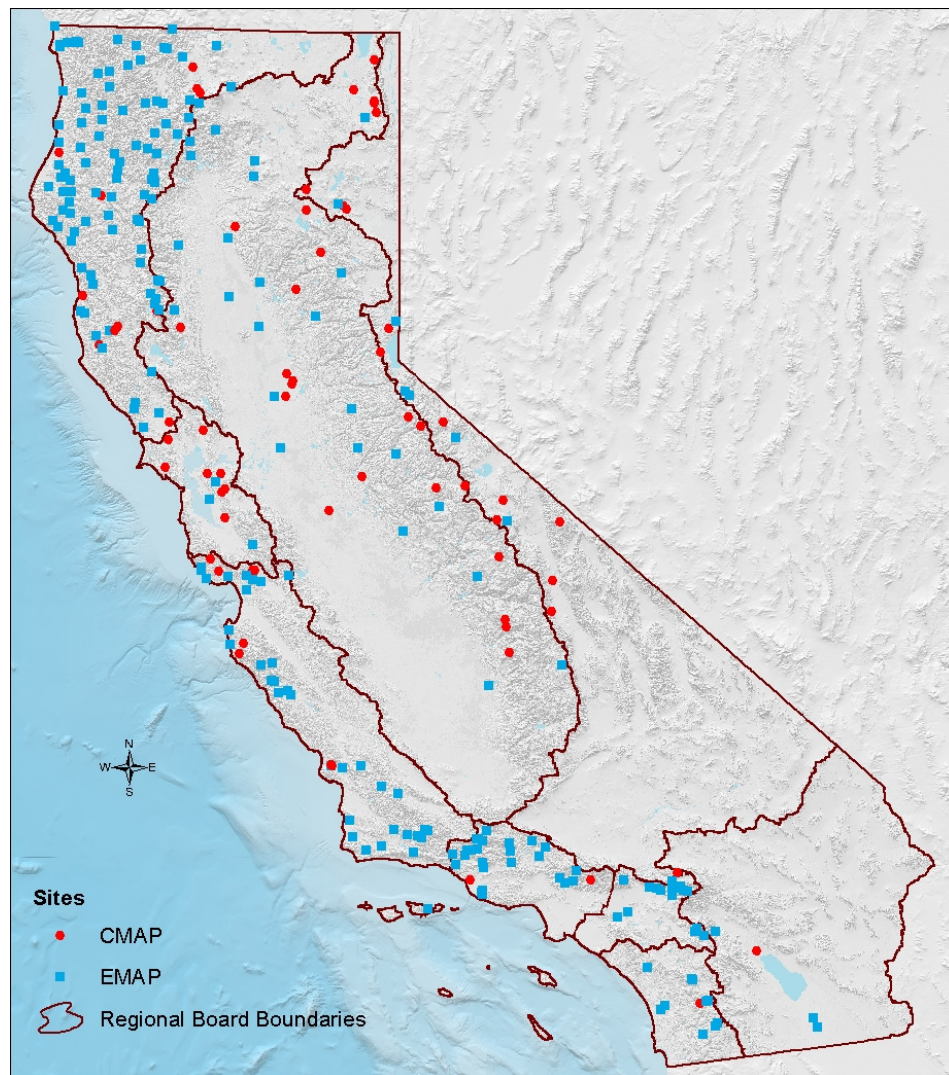
Integrated Water Resource Monitoring Framework



Statewide Assessment Framework



Wadable Stream Ecological Assessments



Inland surface waters
Probability-based
sampling

W-EMAP

2000-2003

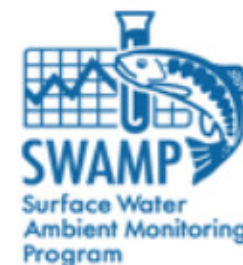
Base statewide study 50
sites/year

3 special study areas CA

SWAMP-NPS

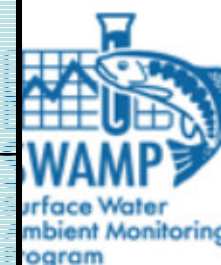
Sampling initiated 2004

50 sites/year statewide

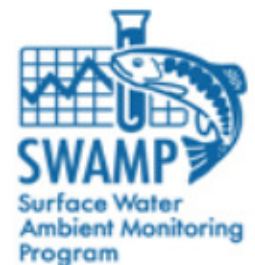
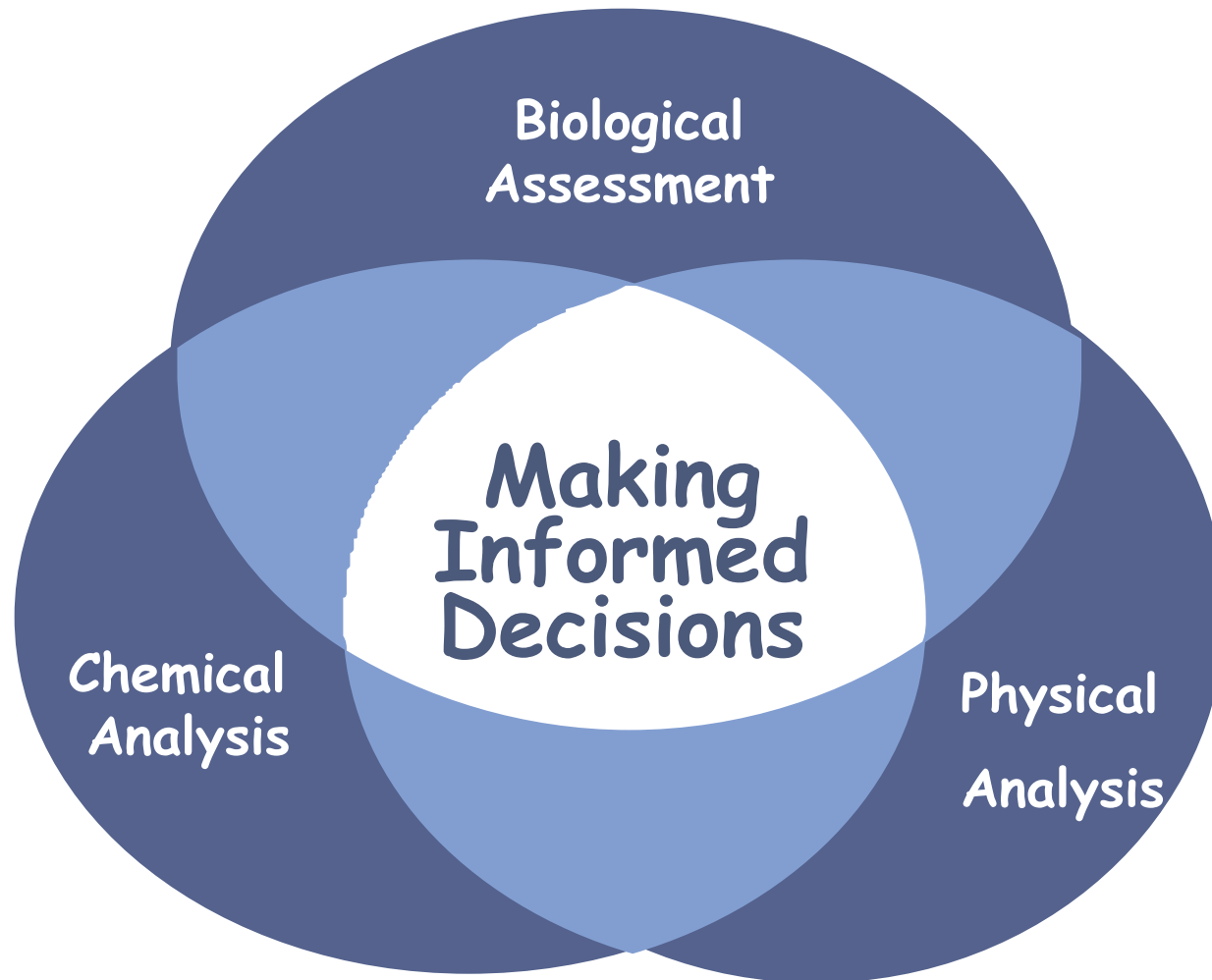


Waterbody/Beneficial Use Matrix

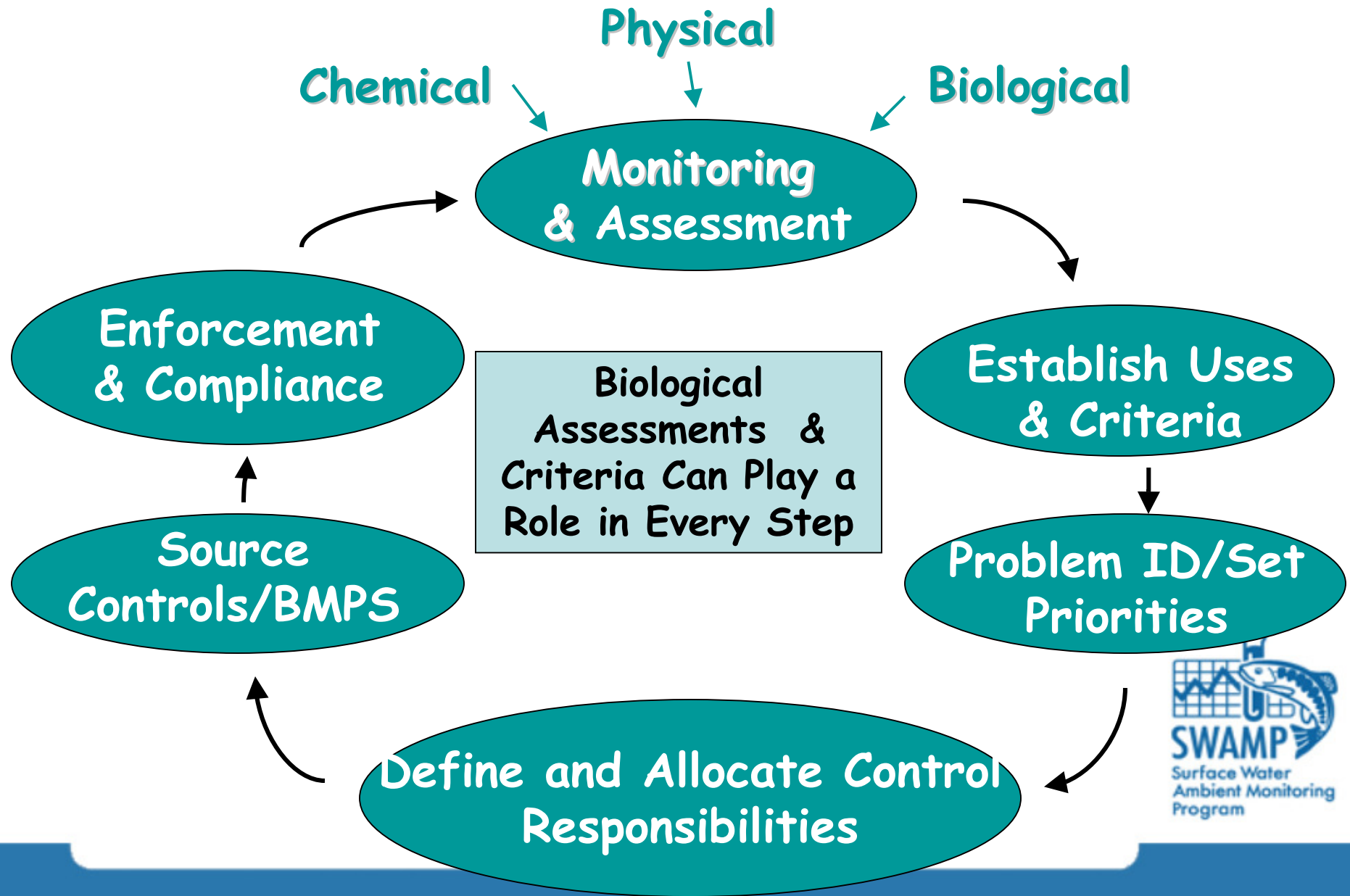
Water Body Type	Beneficial Use			
	Aquatic Life	"Fishable"	"Swimmable"	"Drinkable"
Wadable Streams	<i>CMAP (Bioassessment)</i>		<i>Monitoring Summary</i>	
Large Rivers			<i>Monitoring Summary</i>	
Lakes		<i>New Proposal</i>	<i>Monitoring Summary</i>	
Coastal Waters	<i>Coastal EMAP (SQO's)</i>	<i>New Proposal</i>	<i>Clean Beach Program</i>	NA
Bays/ Estuaries	<i>Coastal EMAP (SQOs)</i>	<i>New Proposal</i>	<i>Clean Beach Program</i>	NA
Wetlands	<i>Inventory Project (CRAM)</i>		NA	NA



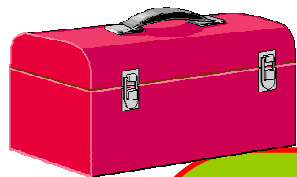
Biological Component Lacking



CWA WATER PROGRAM



Building a Comprehensive Bioassessment Program for California



The "Toolbox"

Tools

- IBIs, RIVPACS models
- Reference conditions
- Thresholds for TALU
- Refined tolerance values
- Stressor linkages
- GIS watershed tools

Infrastructure

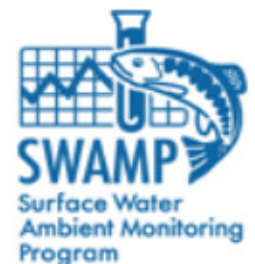
- Field/lab capacity & training
- Database & CalEDAS
- QA/QC program

- Methods comparisons
- GIS tools (reference site selection, etc.)
- spatial applicability (reach > segment)
- QA/QC questions
- Tolerance values refinement
- Diagnostic techniques (stressor ID)
- Additional bio-indicators (i.e., algae)
- Physical habitat indicators

Research Program

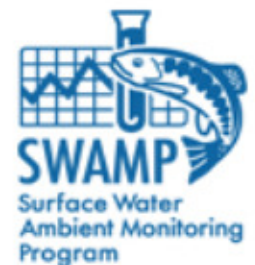
Regulatory Application

- Assessment & reporting
- Evaluate mgmt practices
- Numeric biocriteria & TALU
- TMDL targets
- Permit conditions
- Enforcement Programs



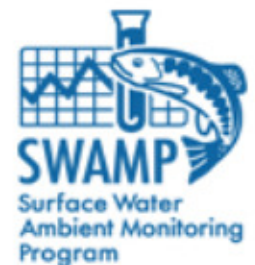
Recommendation 2. Identify clients

- Identify Clients for SWAMP services
- Clients with mix of local and statewide perspectives
- Assess client needs
- Take advantage of grant requirement for comparability
 - Utilize QA and data management activities to build links to SWAMP.

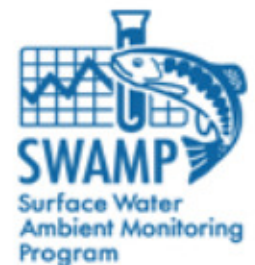
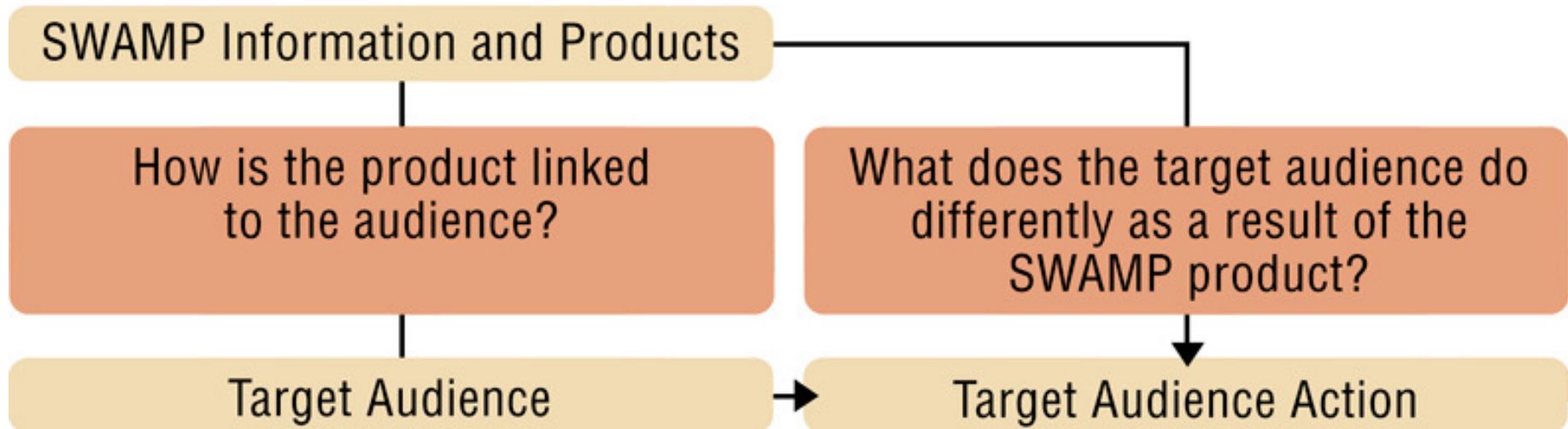


Client Selection Criteria

- Ability to directly use info. to improve w.q.
- Would change their behavior based on info.
- Federal & State regulations or requirements.
- Ability to “make or break” SWAMP.
- Source of SWAMP funding



PRODUCT/AUDIENCE LINK



Response 2.

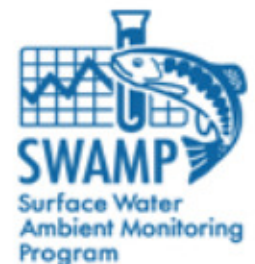
Client identification-Client Chains

Direct Clients

- Water Board Program staff
- Regulated Community

■ Indirect Clients

- Public
- US EPA, Other agencies and monitoring entities
- Grantees – Need help meeting requirements
- Environmental Community
- Legislature



SWAMP Proposed Response

Reevaluate the original program goals.

- Priorities set for next two years; contingent on funding

Identify key target audiences.

- Completed

Develop and implement a programmatic communication strategy.

- Workplan almost complete; implementation started

Develop a statewide assessment framework.

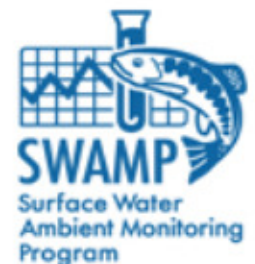
- Ongoing; Identified basic tenets; Developed two workplans

Take more advantage of available resources.

- Ongoing; making progress

Realign program management and decision making with the revised program goals.

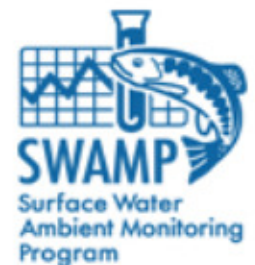
- Ongoing; making progress; workplan being developed



Recommendation 3.

Implement a communication strategy

- Develop communication strategy based on program goals and client needs
 - Signature products
 - Raw data to higher level syntheses and summaries
- Comprehensive analysis should use other data
- Schedule for routine production of products
- Look at mature programs for examples
 - Tailor the look
 - Target the audiences

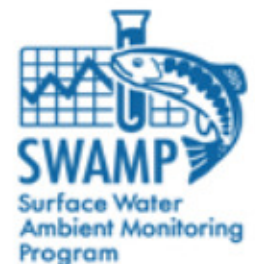


Recommendation 5.

Take advantage of available resources

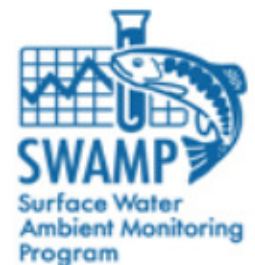
- Developing a systematic strategy at the program level (State Board, Regional Board) for coordinating with other large monitoring efforts, particularly NPS and those driven by permits.
 - Program and NPDES driven regional efforts (e.g. SCCWRP, SFEI)
- Implementing more consistent, stronger, and broader connections with major monitoring efforts at the local, regional and statewide level. (External Liaisons)
- SWAMP will continue working with similar programs in other states and at the federal level through National Monitoring Council.
- RT will attend National Monitoring Conference in May 2006*

*SPARC recommendation



Regional Monitoring Workplan

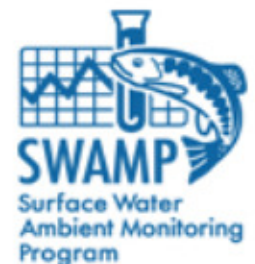
- Integrated and collaborative watershed monitoring
 - cost effectiveness
 - potential for nested sampling designs
- Enables ongoing large-scale assessments of watershed condition
 - how does your site compare?
 - regional reference condition
- Improves agency quality and comparability
 - - need to compile data sets



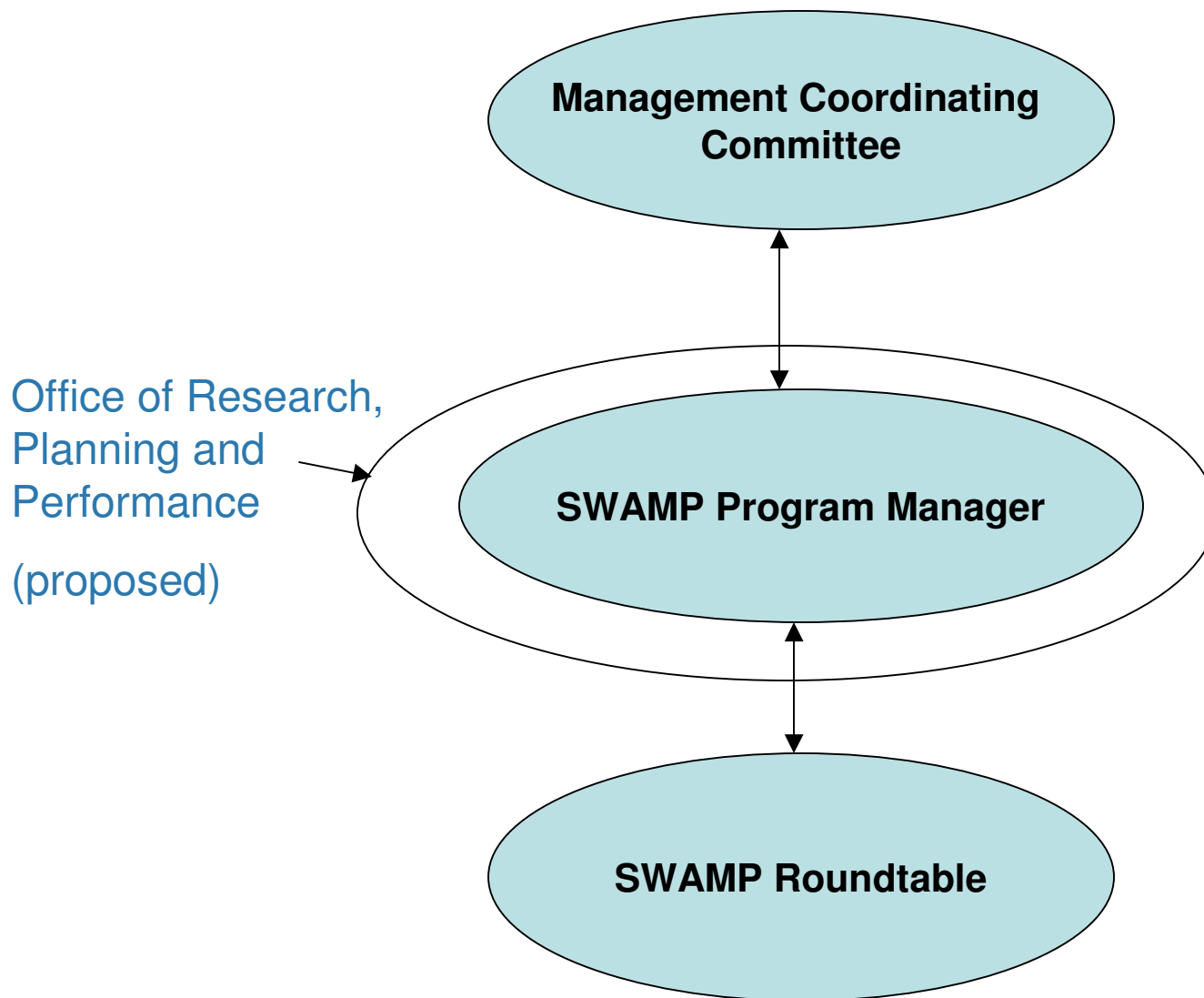
Recommendation 6.

Align management and decisions with goals

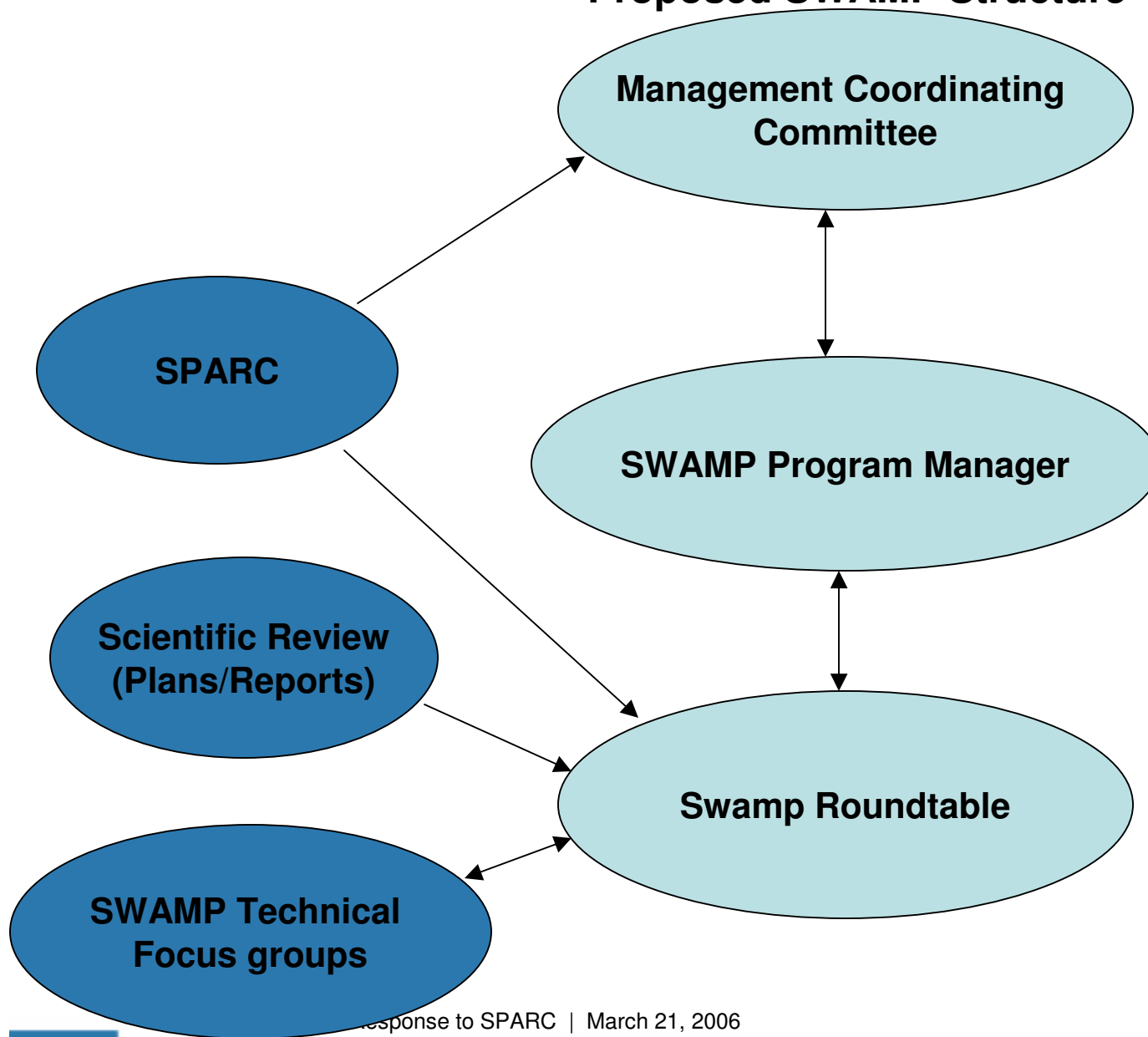
- Evaluate current management structure and decision-making relative to
 - revised program goals,
 - regulatory and monitoring efforts,
 - statewide assessment strategy
- Balance the benefits of collaborative decision making among the Roundtable with mechanisms for moving forward in the absence of consensus
- Develop a systematic decision process for setting priorities.
 - Monitoring, pilot projects, indicator development, assessment
- Develop a clearinghouse to facilitate information sharing among the regions



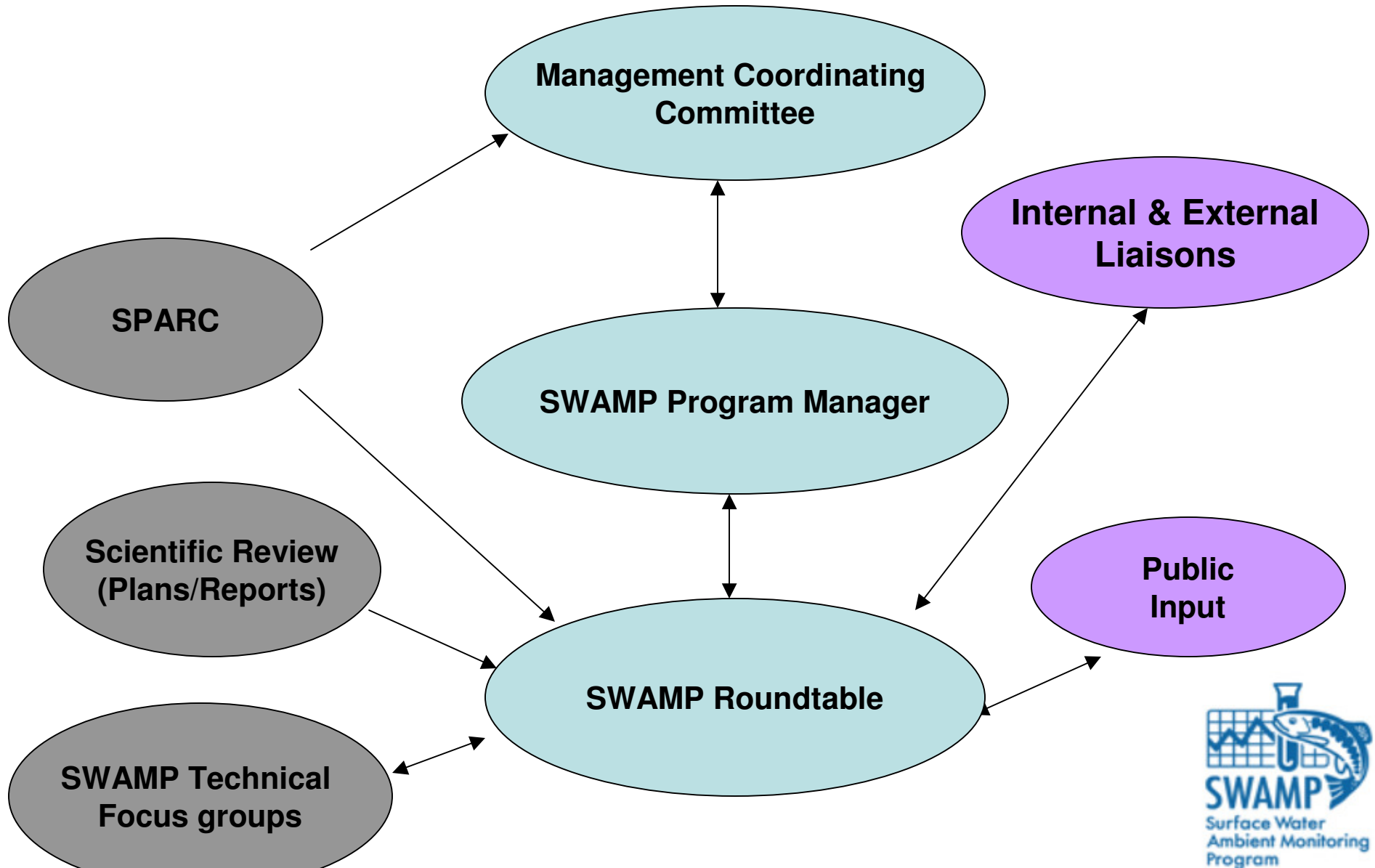
Proposed SWAMP Structure



Proposed SWAMP Structure

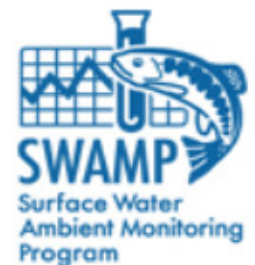


Proposed SWAMP Structure



Implementation Strategy: “10 Elements”

- Monitoring Program Strategy (1)
- Monitoring Objectives (4)
- Monitoring Design (4)
- Core Indicators of Water Quality (2,3,4)
- Quality Assurance (2,3)
- Data Management (1,2,3)
- Data Analysis/Assessment (2,3,4)
- Reporting (2,3)
- Programmatic Evaluation (5,6)
- General Support and Infrastructure (5,6)



Summary

- Direct Clients: Bd Program staff; regulated community-**Client Chains**
- Implementing Communication Strategy
- **Developing statewide assessment framework**
 - Overview
 - Biological Assessment
 - Bioaccumulative substances
 - **White paper; Technical Workshops**
- Proposed new organizational structure
- Developing process for budgeting/decision-making
- **Business Plan** (goals, objectives, tasks, products, schedule, budget and performance criteria)

